memory device such that the processor can perform the operation using the program and the information when executing the program; and

an interface device configured to perform communication between at least one of the processor, the auxiliary memory device and the main memory device and the outside,

wherein the semiconductor memory unit that includes the resistance variable element is part of the auxiliary memory device or the main memory device in the processing system.

29. The electronic device according to claim **18**, further comprising a data storage system which includes:

a storage device configured to store data and conserve stored data regardless of power supply;

a controller configured to control input and output of data to and from the storage device according to a command inputted form an outside;

a temporary storage device configured to temporarily store data exchanged between the storage device and the outside; and

an interface configured to perform communication between at least one of the storage device, the controller and the temporary storage device and the outside,

wherein the semiconductor memory unit that includes the resistance variable element is part of the storage device or the temporary storage device in the data storage system.

30. The electronic device according to claim **18**, further comprising a memory system which includes:

a memory configured to store data and conserve stored data regardless of power supply;

a memory controller configured to control input and output of data to and from the memory according to a command inputted form an outside;

a buffer memory configured to buffer data exchanged between the memory and the outside; and

an interface configured to perform communication between at least one of the memory, the memory controller and the buffer memory and the outside,

wherein the semiconductor memory unit that includes the resistance variable element is part of the memory or the buffer memory in the memory system.

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